

camelCase

camelCase is a form of writing a phrase without punctuation. It can be done by writing the first word entirely in lowercase, and the rest of the words are written with Capitalization; that is, only the first character of each word is capitalized. Afterwards, concatenate every word together without spaces (keep numbers as is) e.g., **Power of “love” 555** turns into **powerOfLove555**

Write a program that takes English phrases which contains letters (both upper and lower cases), numbers, special symbols, and spaces. Then remove all special symbols and spaces, turn it into camelCase and output it onto the screen.

Input

A single line of String

Output

camelCase version of the input line of String.

Example

Input (from keyboard)	Output (on screen)
"True" or "False"	trueOrFalse
My number is 02-000-0000	myNumberIs020000000
OK OK OK	okOkOk